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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/682,117	07/24/2001	Takayuki Sato	VN-0139US	8778
21874	7590 08/11/2004		EXAMINER	
EDWARDS & ANGELL, LLP			LAM, DANIEL K	
P.O. BOX 558 BOSTON, M			ART UNIT PAPER NUMBER	
,			2667	
•			DATE MAILED: 08/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/682,117	SATO, TAKAYUKI					
Office Action Summary	Examiner	Art Unit					
	Daniel K Lam	2667					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address	ess				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may oly within the statutory minimum of the light of the statutory minimum of the light of the statutory minimum of	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this commendation (35 U.S.C. § 133).	nunication.				
Status							
1) Responsive to communication(s) filed on 25 M	May 2004.						
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-37</u> is/are pending in the application	Claim(s) <u>1-37</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6) Claim(s) <u>1-4,6-9,11-13,15-18,20-22,24-27,29-</u>	Claim(s) <u>1-4,6-9,11-13,15-18,20-22,24-27,29-31 and 33-36</u> is/are rejected.						
7)⊠ Claim(s) <u>5,10,14,19,23,28,32 and 37</u> is/are ob	☑ Claim(s) <u>5,10,14,19,23,28,32 and 37</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examine	er.						
0)⊠ The drawing(s) filed on <u>24 July 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abey	/ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO	-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		. § 119(a)-(d) or (f).					
1. Certified copies of the priority documen							
2. Certified copies of the priority documen		· · · — — —					
3. Copies of the certified copies of the price	•	en received in this National St	age				
application from the International Burea * See the attached detailed Office action for a list	. , , , , , , , , , , , , , , , , , , ,	et received					
See the attached detailed Office action for a lis	cor une cerunieu copies fi	ot received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Intervie	w Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	lo(s)/Mail Date	52)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>10</u>. 	6) Other:	of Informal Patent Application (PTO-1	J£]				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Amended claims 1, 11, 20, and 29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amended claims 1, 11, 20, and 29, in lines 6 and 8, recite "types of device" and "type of device" respectively. However, there is no support of types of device or type of device in the disclosure.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 4, 6, 7, 9, 11, 13, 15, 16, 18, 20, 22, 24, 25, 27, 29, 31, 33, 34, and 36 are remain rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Pat. No. 6,223,218 issued to Iijima et al.

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Regarding amended claims 1, 11, 20, and 29, while patenting the systems and methods for automatically setting VLAN configuration information, lijima et al. discloses a apparatus, a program, a method, and a system for administrating networking devices comprising:

- a) VLAN detailed information 19, which is stored in the database 11 (VLAN information database), comprises VLAN groups VLAN-A 191, VLAN-B, VLAN-C, etc (one or more VLAN groups) to which device IDs of switching hubs, SWITCHING HUB-A1 196 and SWITCHING HUB-A2 197 are stored (one or more device identifying information respectively specifying); see figures 2 and 3, col. 12, line 60 to col. 13, line 4, and col. 13, lines 13-15.
- b) A VLAN ALTERATION REQUESTING RECEIVING SECTION 18 receives device ID from networking device (a receiving unit operable to receive device identifying information); see fig. 1 and col. 11, line 59 to col. 12, line 5.
- c) A DATABASE UPDATE SECTION 16 and a DATABASE WRITING SECTION 13 write and update the received VLAN information, including device ID, into the DATABASE 11 (a database updating unit operable to store said received device identifying information); see fig. 1, and col. 12, lines 5-10.
- d) A VLAN REMOVE UPDATE REQUEST EDITING SECTION 14 and a VLAN REMOTE UPDATE REQUEST TRANSACTION SECTION 17 assign and send the VLAN configuration information to the networking device (a setting unit operable to assign said VLAN group to network devices); see fig. 1, and col. 12, lines 21-25.

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Regarding original claims 4, 13, 22, and 31, in addition to disclose the limitations regarding claims 1, 11, 20, and 29 discussed in the previous paragraphs, Iijima et al. further discloses the limitations that, if an alternation request coming from a device that is already belong to an existing VLAN group, the device is assigned to the existing VLAN group (receiving unit receives said device identifying information of said network device, which belongs to a default VLAN group in said VLAN information database, from said network device, and said setting unit assigns, in a case where said device identifying information received by said receiving unit is included in said one or more units of device identifying information stored in said VLAN information database, said VLAN group corresponding to said received device identifying information to said network device of said default VLAN group); see fig. 4 reference A6, and col. 22, lines 36-46.

Regarding **original claims 6, 15, 24, and 33**, in addition to disclose the limitations regarding claims 1, 11, 20, and 29 discussed in the previous paragraphs, Iijima et al. further discloses the limitations that a TERMINAL MOVEMENT DETECTION SECTION 213 in co-operation with VLAN ALTERNATION REQUEST RECEIVING SECTION 18 for handling newly connected networking device with device identifying information (a detecting unit operable to detect a new network device and said receiving unit receives device identifying information); see fig. 1, and col. 11, lines 10-15, and lines 21-32.

Regarding **original claims 7, 16, 25, and 34,** in addition to disclose the limitations regarding claims 6, 15, 24, and 33 discussed in the previous paragraph, Iijima

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et al. further discloses the limitations that a TERMINAL MOVEMENT DETECTION SECTION 213 in co-operation with VLAN ALTERNATION REQUEST RECEIVING SECTION 18 and DATATABASE UPDATE SECTION 16 for handling networking device removable (the detecting unit further detects one or more network devices that has been removed and said database updating unit deletes said corresponding device information); also see fig. 1, col. 11, lines 10-15, and col. 12, lines 5-10.

Regarding **original claims 9, 18, 27, and 36**, in addition to disclose the limitations regarding claims 7, 16, 25, and 34 discussed in the previous paragraphs, Iijima et al. further discloses deleting the connecting port from the VLAN and deleting the VLAN after the last terminal has removed from the port (assigns a default VLAN group to a connection port of an interconnecting device corresponding to said network device detected by said detecting unit); see fig. 5, A31, and col. 24, lines 45-53.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 3, 12, 21, and 30 remain are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Pat. No. 6,223,218 issued to Iijima et al. in view of U. S. Pat. No. 6,085,238 issued to Yuasa et al.

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Regarding original claim 2, although Iijima et al. discloses the limitations regarding claim 1 discussed in the previous paragraphs, he does not disclose explicitly using the MAC address of a networking device as device identifying information.

Yuasa et al, however, discloses using the MAC address of a networking device as client address such that VLAN can be created; see figures 2 and 3, MAC ADDRESS[es], and col. 17, lines 27-28, and col. 19, lines 39-40.

Therefore, it would have been obvious to those having ordinary skill in the art, at the time of invention, to incorporate MAC address to create VLAN since MAC address is already in the header of a data-link layer frame. Hence, no extra header or tag, is needed to identify a VLAN as taught by Yuasa et al; see col. 17, lines 21-26.

Regarding **original claims 3, 12, 21, and 30**, in addition to disclose the limitations regarding claims 1, 11, 20, and 29 discussed in the previous paragraphs, Yuasa et al. further discloses:

- Receiving DESTINATION APPLICATION ADDRESS and SOURCE
 APPLICATION ADDRESS defined by the user or application software as client addresses to form a Custom LAN switch (further receives said user identifying information from said network device); see fig. 2, and col. 19, lines 45-50.
- Storing the client address as USER-DEFINED ADDRESS in the database (stores said device identifying information in said VLAN information database to correspond to said user identifying information and said VLAN group, in a case where said VLAN information database has already stored said user identifying information received by said receiving unit); see fig. 3, col. 19, lines 61-63, and col. 22, lines 55-65.

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7. Claims 8, 17, 26, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,223,218 issued to Iijima et al. in view of U.S. Pat. No. 5,751,967 issued to Raab et al.

Regarding **original claims 8, 17, 26, and 35**, although Iijima et al. discloses the limitations regarding claims 7, 16, 25, and 34 discussed in the previous paragraphs, he does not disclose explicitly the database updating unit deletes the corresponding device identifying information from the VLAN information database when a predetermined time period has passed after detection that the network device has been removed or turned off.

Raab et al. discloses a time-out process wherein the node will only be indicated as deleted from given VLAN in the database if and only if they have been removed for some specified period of time; see col. 13, lines 7-16.

Therefore, it would have been obvious to those having ordinary skill in the art, at the time of invention, not to mark the networking device, in the database, has been removed from the network immediately after the removable since the networking device may be moving from one part of the network to another as taught by Raab; see col. 13, lines 1-6.

Allowable Subject Matter

8. Original claims 5, 10, 14, 19, 23, 28, 32, and 37 are objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

9. Regarding the remark (see page 15, lines 1-3) concerning about "Iijima is directed ... to the identity of particular device, not a type of device", however, there is no support of type of device in the disclosure.

Contact Information

10. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel K. Lam whose telephone number is (703) 305-8605. The examiner can normally be reached on Monday-Friday from 8:30 AM to 4:30 PM.

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If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for this Group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status Information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DKL affe August 7, 2004

CHI PHAM

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600 8/9/